The Chemical Age

Maxted), 336

371

Index to Volume LVII

July to December, 1947

A.B.C.M.'s Revised Safety Rules, 647 Acetylene, Accidents with, 492 Air Filtration, 573 Alkali Inspector Sums Up, An, 217, 257 Alkali Output Cut, 145 Alkay Resin Plant, New, 163 Alloy, Low Melting, 468 Aluminium Development Association Staff Changes, 63 Aluminium Development Association Staff Army, Feeding an, 804 Atomic Energy, 471 Atomic Energy, 147 Atomic Energy Plans Criticised, 422 Atomic Energy, Plans Criticised, 422 Atomic Energy, Reports, 561 Atomic Energy Rail Exhibition, 349 Atomic Energy, Sir Wallace Akers on, 126 Atomic Pile, Britain's First, 254 Atomic Pile, Britain's First, 254 Atomic Pley, Pitonium, 384 Atomic Power: 5 or 10 Years?, 657 Atomic Research, No Priority for, 490

AUTHORS-

Arend, A. G., Electrolytic Lead for Research Purposes, 325
Bull, William, Waste Pickle Conversion to New Material, 465
Butler, J., The Case for the Heat Pump, 757
Lehrecke, H. W., Iron Compounds and Phosphatic Fertilisers, 648, 672, 698
Paul, R., Hydrogenation Products of Furfural, 794
Sanderson, L., Precipitation Hardening, 13, 151;
The Fluoroscope as a Flaw Detector, 599; Progress in Industrial Measurement, 493
Seymour, H., Chemical Porcelain, 355; Shipment, Storage and Handling of Soda Ash, 365
Simonsen, J. L., Chemistry and the Colonies, 319
Smith, I. C. P., Glass in the Laboratory, 19, 165, 298, 431, 571, 702
Townend, Dr. D. T. A., Modern Coal Gasification Methods, 357 Arend, A. G., Electrolytic Lead for Research Purposes,

Awards for English Scientists, International, 677

Baird and Tatlock Sales Convention, 603 Beecham Group Company Meeting, 206 Benn Brothers, Ltd., Company Meeting, 237 Benzene Explosion Costs Three Lives, 575 Benzene Explosion Inquest, 619 Benzoic Acid Cell, 540 Benzole Production Down, 815 Betro Service, New, 368 B.I.O.S. becomes T.I.D.U., 629 Boake Roberts' New Issue, 752 Boiler Plants, Steam, 386

BOOK REVIEWS—

Antimalarial Drugs, Survey on (Office of Technical Services, U.S. Department of Commerce), 549 Cellulose Chemistry, The Methods of (Charles Doree), 681 681 Chemical Principles, A Rational Approach to (J. A. Cranston), 681 Chemicals, Servant or Master? (Bob Edwards), 25 Chemistry, A Century of (F. Sherwood Taylor), 130 Chimie Organique (A. Krikmann), 681 George Washington Carver (Rackham Holt), 130

Molecules Against Microbes (E. S. Duthie), 164 New Fibres, The (J. V. Sherman and S. L. Sherman), 408 Physical Chemistry, Elements of (Samuel Glasstone), 513 Plastics Annual 1947, British Internationl (L. G. Hill), 768 708
Plastics, British Catalogue of (E. Molloy), 202
Plastics, Fundamentals of (H. M. Richardson and
H. Watson Wilson), 164
Plastics Manual (H. R. Fleck), 768 Plastics, The Welding of (G. Haim and H. P. Zade), 513 513
Reclaimed Rubber, The Story of an American Raw
Material (J. M. Ball), 25
Science News, British (British Council), 274
Statistical Methods in Research and Production with
Special Reference to the Chemical Industry (Edited
by O. L. Davies), 549 Thorpe's Dictionary of Applied Chemistry (Edited by M. A. Whiteley), 274 Wood Pulp and Allied Products (Julius Grant), 130 British and German Chemical Hauseness, British Association Addresses, 513 British Chemical Manufacturers, Association of, 527 British Chemists' Warning, Association of, 590 British Glues' Development Programme, 186 British Glues' Development Programme, 186 Countries Scientific Instrument Research Association, British Scientific Instrument Researc Expansion of, 86 British Standard Specification, New, 258 Brotherton Private Research Centre, 631 Bulk Buying Attacked, 9
Bush & Company, Ltd., W. J., Annual General Meeting, 274 Business Efficiency Exhibition, 463 Business Visits to Germany, 108

Inorganic Chemistry, Modern Advances in (E. B.

Mechanism of Contact Catalysis, The (R. H. Griffith),

C

Calorimeter Room, Model, 57 Capital Expenditure Cuts, 719 Carbon Bisulphide Process, New, 700 Carbonisation, Chemical Products of, 820 Carton, Novel, 306 Cass Technical Institute, 352 Catarole Process Scheme, 288 Caustic Soda, Electrolytic, 786 Celanese Developments, 705 Celanese Expansion Programme, 304 Cellulose Acetate Demands, 294 Cellulose Fibres, Plates from, 229 Cements Resistant to Sea Water, 318 Centenary Address, 111
Centenary Celebrations, 8
Centenary Dinner, Prime Minister at, 110
Ceramics, New Resistant Metals and, 402 Charcoal Production in Britain, 461 Chemical and Metal Prices, Records of, 183 Chemical and Metal Statistics, 255 Chemical and Metal Statistics, 255
Chemical Age, 804
Chemical Age, 804
Chemical Chiefs on Trial, 284
Chemical Chiefs on Trial, 284
Chemical Chub Officers, 656
Chemical Congress Programme, 8
Chemical Congress Programme, 8
Chemical Congress V.S., 435
Chemical Engineering Refresher Course, 132
Chemical Equipment, American, 788
Chemical Export Targets, 575
Chemical Factories, New, 108 Chemical Industry in Autumn, 643 Chemical Industry in this Country, The Future of, 427 Chemical Industry Transport, 762 Chemical Notation, Another, 558 Chemical Notes, Scottish, 574 Chemical Output Rising, 215 Chemical Plant Manufacturers Annual Luncheon and Meeting, 5
Chemical Plant, New, 288
Chemical Porcelain, 355
Chemical Prices, 407
Chemical Production in 1946, 170

Chemical Prices, 407
Chemical Production in 1946, 170
Chemical Production, Post-war, 385
Chemical Society Centenary, 73
Chemical Society Symposium, American, 501
Chemical Standards, Creating World, 91
Chemical Standards, Creating World, 91
Chemical Statistics in July, 496
Chemical Storehouse, Utilising a, 543
Chemical Trading in August, 455
Chemical Trading in June, 146
Chemical Trading in June, 146
Chemical Trading in June, 146
Chemical Trading Statistics, 284, 751
Chemical Trading Statistics, 284, 751
Chemical Workers, More, 347
Chemical Workers, More, 347
Chemical Workers, Qualifications for, 525
Chemicals for Disposal, Service, 496
Chemicals for Disposal, Service, 496
Chemicals from Farm and Forest, 335
Chemicals Used for Glass Colouration, 421
Chemistry and Railways, 107
Chemistry and Railways, 107
Chemistry and Railways, 107
Chemists at the Royal Society, 109
Chemists at the Royal Society, 109
Chemists, Control of, 472
Chemist, Direction of, 419
Chemists, Trading and Status of, 456
Chemists, Trading and Status of, 456
Chemists, Trading and Status of, 456

Chemists in Council, International, 118 Chemists, Responsibilities, 184 Chemists, Training and Status of, 456 Chemurgy, Recent Progress in, 335 Chlorine Lorry on Fire, 352 Chlorobenzene, Synthetic Phenol and, 463 Chrome Ore and Concentrates, 468

Chromic Acid Shortage, 220

Chromie Acid solrolage, 220 Clay Convention, 362 Clove Oil Outlook, 730 Coal Allocations Bungled, 476 Coal and Chemical Prices, 581 Coal and Petroleum, Chemicals from, 78 Coal and Petroleum, Chemistry of, 39

Coal Boring, 259 Coal, Cleaner and Cheaper, 767 Coal Consumers' Councils, 132

Coal for Industry, More, 526 Coal for Steel, More, 17 Coal Gasification Methods, Modern, 357, 399

Coal in June, Less, 9 Coal/Oil Scheme Halted, 812 Coal/Oth Scheme Haited, \$12 Coal Output, Rising, 678 Coal Plans, Opencast, 250 Coal Production, Small Rise in, 128 Coal Seams, New, 665 Coal, Shale and Petroleum as Sources of Chemical Products, 41

Products, 41
Coal Slumps Again, 352
Coal Stocks in North-West, 259
Coal Strike Halts Industries, 350
Coastwise Petroleum Company's Anniversary, 128
Companies Act Reviewd, 562
Concrete, Properties of, 351
Congress, World Representation at the, 87
Control of Engagement Order, 419, 491
Cyanamide and Melamine, 507
Cyanamide, Fatal Accident with, 477

Dalton Budget, 676
D.D.T., New Variant for, 629
Degrees for Technologists, New, 224
Department of Scientific and Industrial Research,
Scottish Office of, 410 Derbyshire Stone Appointments, 741 Dermatitis, Industrial, 420 Diamond Bulletin, Industrial, 294

Die-Casting, Principles of, 602 Diesel Fuel Oils, Synthetic, 398 Diffraction Camera, Electron, 824 Dismantlings in Germany, French, 669 Distillers Company, Ltd., The, 577 Distillers' Expansion Plans, 560 Drug Houses, Visit to British, 116 Dunlop Executive's Tip to Advertisers, 632 Duty Exemptions from 258 Duty, Exemptions from, 258

Economic Security, Quest for, 592

EDITORIAL-

American Exposition, 691 Artificial Rain, 253 Atomic Pile, Britain's, 253 Atomic Pile, Britain's, 253
Atomic Plants, Our, 143
Austria Can Do It, 558
Bad Start, 4, 417
Balance Destroyed, 557
British Association Meeting, 345
Bulk Buying Attacked, 144
Bull-Week, 780
Bunk or Common Sense, 343
Ruildow Svirit. The, 523 Bulldog Spirit, The, 523 Case for the Combine, 141 Celebrations End, The, 105 Changing Policy, 523 Characteristic Smells, 181 Chemical Plant, British, 103 Chemical Fight, British, 103 Chemical Society, The, 33 Chemical Society Centenary Celebrations, 3 Chemist's Sphere, The, 487 Christmas cift from the Mines, 780 Coal Deadlock, 35 Coal, £12 Million More for, 664 Coal Mines, New, 345 Coal, Utilisation of, 69 Coal, Utilisation of, 69 Congress, The, 143 Contract System, The, 283 Co-ordination Needed, 523 Costs Still Rising, 36 A Crisis in British History, 211 Dangerous Familiarity, 181 Decleot, Paris L. In. 5 Darkest Russia, In, 453 Depressing Figures, 283 Domination by a Few, 346 Educating the Chemist, 453 Education and the Scientist, 663 Education and the Scienti Electron, The, 451 European Recovery, 415 Exhibition, The, 71 Export Aids, 489 Export Organisation, 251 Export Dramisation, 251 Export Plan, The, 382 Factory Development Halted, 749 Fraternity, 71 Fuel Saving, 811
Furfural, Products of, 781
General Aniline, Struggle for, 381
German Dismantling, 588 German Industry, 315 German Steel and Chemicals, 780 Giants and Atomics, 811 Guido Donegani, 616 Harvesting the Sea, 639 Human Management, 1 I.C.I. Chemicals, 640 If . . . , 106 Incentives, 641 Industrial Genesis, 417 Industrial Genesis, 417 Ineptitude, 346 Interested Firms, 881 International Red Tape, 615 Isotope Future, 345 Keywar Plants, 588 Labour Paradox, 489 Leaden Curtain, The, 418 Leather Trades, Review, 417 Lesser Evil, 589 Long View, The, 213

Editorial-continued

Looking Ahead, 809 Looking Ahead, 809
Lucky Dip, 664
Man-made Barriers, 524
"Merit "Payments, 718
Mighty Plan, A, 281
Mine Explosion, The, 253
Mineral Wealth, 615
Miners, 40,000 More, 665
Modern Section of the Exhibition, A, 71
More Headaches, 284
More Millions, 35
National Stocking, A, 179
Nitrogen Targets, 749
No Supermen, 382 Nitrogen Targets, 749 No Supermen, 382 Not Good Enough, 316 Not "Very Important," 489 Notable Absence, A, 105 Obstacle Race, 381 Odd Olfactories, 181 Odd Olfactories, 181
oil Developments, British, 691
oil Resources, Dwindling, 315
one of Many, 749
Opportunity, 717
Other Black Market, The 524
Paper and Knowledge, 524
Peaceful Infiltration, 664
Poisonous Effluents, 779
Powell Duffryn and Borneo, 490
Practical Research, 105 Powell Duffryn and Borneo, 490 Practical Research, 105 Pretensions of Labour, The, 313 Production Halted, 346 "End Products" Priority, 750 Progress by Candlelight, 454 Quotas Not Met, 283 Rat Race, 640 Refrigeration, 521 Reparations in Kind, 557 Research as a Career, 555 Research at Home, 4 Rewards and Responsibilities, 747 Scapegoats, 345 Science and Government, 689 Science and the Humanities, 587 Scientists, Free, 717 Scientists' Roll-Call, 615 Some Disappointments, 144 Soviet Viewpoint, 640 Staggering Difficulties, 182 Supplies, Alternative, 316 Suspended, 811 Team Work, 3 Technical Universities, 182 Telling the World, 72 This Year... Next Year, 379 Trade Union Policy, 213 Vital Capital Equipment, 715 Voice in the Wilderness, 213 Wagon Crisis, 691 Welding Progress, 717 Where Does Life Begin, 613 Work of Art, 4 Working Conditions, Better, 143 World Library of Chemistry, 692 World Oils and Fats, 557

Egg Testing, Dried, 641
Electricity, Superheating by, 363
Electricity Project, Continental, 382
Electrochemistry, Current Efficiency in, 823
Electrochemistry, Current Efficiency in, 823
Electrolytic Lead for Research Purposes, 325
Electron Diffraction Camera, 824
Electron Jubilee, 351, 477
Electron Microscopy Conference, 201
Electron ic Comparator, 731
Electropiating, 681
Electropiating, 681
Engineering Products too High, Price of, 477
Enterprise Scotland Exhibition, 294
Equipment, British and Foreign, 754
Equipment, British and Foreign, 754
Equipment, New Chemical, 369
Estates, Industrial, 108
European Recovery, 626
Exhibition, Atomic Energy Rail, 349
Exhibition, Busin. s Efficiency, 463
Exhibition, Enterprise Scotland, 294
Exhibition, "Industrial Wales", 18, 317

Explosives Inspectors' Report, 476
Export Licence Changes, 812
Export Licence Situation, Easing, 787
Export Sales Slump, 590
Exports, Government's Plans for, 383
Exports in October, Chemical, 695
Exports, Record Chemical, 591
Exports, September Record, 560
Exposition of Chemical Industry, 21st, 788

F

Factories, Staggered Hours in, 348
Factory Safeguards, Progress in, 581
Fans for the Chemical Industry, 537
Fatiess Soap, A New, 239
Faties Foap, A New, 239
Faties Foap, A New, 239
Fettiliser Hours, Compound, 786
Fertiliser Production, Scottish, 61
Fertiliser Production, World, 61
Fertiliser Production, World, 61
Fertilisers and Fish, 531
Fertilisers and Fish, 531
Fertilisers and Fish, 531
Fertilisers, Iron Compounds and Phosphatic, 648
F.I.A.T. Final Report No. 757, 761
F.I.A.T. Final Report No. 876, 330
Fibre Shortage, World, 438
Fine Particles, Separating, 671
Fire Protection, 476
Fischer-Tropsch Developments, Prospects of, 701
Fish, Fertilisers and, 531
Fison's Offer to Bengers, 386
Fluoroscope as a Flaw Detector, The, 599
Food Yeast from Timber Waste, 497
Formaldehyde Factory, New, 589
Foundry Output Increase, 469
Fourth Radioactive Series, 401
Frothing, Prevention of, 666
Frustration, 36
Fuel and Chemical Processers' Full-scale Production, 753
Fuel Saving in Scotland, 525
Fullmer Research Laboratory, 51
Furfural, Expanding Use of, 694
Furfural, Hydrogenation Products of, 794
Furnace, 14de, Scottish, 815

G

Gamma Rays for Industry, 826
Gas Plant Fire, 430
Gas Production and the Chemical Industry, 423, 457
Gas Production and the Chemical Industry, 423, 457
Gas Purification and Refrigeration, 755
Gas Purification, Improved, 601
Gas Research, Growth of, 720
Gas to Cost More, 629
Gasket Material, 830
Gasification Methods, Modern Coal, 357
Gasification, Underground, 477
German Reparations, 667
Glasgow Technical Centre, 751
Glass Colouration, Chemicals Used for, 421
Glass Colouration, Chemicals Used for, 421
Glass Colouration, Chemicals Used for, 421
Glass, New Resistant, 539
Glassware Manufacture, Chemical, 547
Glycols, Synthetic, 817
Government Purchasing, 720
Graduates Go South, 812
Graphite, Colloidal, 752
Guantiline Nitrate, 503

н

Heat from Reaction Vessels, Harnessing, 653
Heat Pump, The Case for the, 757
Heat Pump Performance, 760
Heating, Indirect Methods of, 387
Heating, Safe, 579
Helium from Natural Gas, 724
Herring Oil Extraction, 705
Hydraulic Power Pump, New-type, 92
Hydrogen Peroxide Development, 568
Hydrogen Peroxide Development, 568
Hydrogen Peroxide Propulsive Power, 395
Hydrogenation by Dissociated Ammonia, 654
Hydrogenation Products of Furfural, 794

I.C.I. Board, Workers on, 137 I.C.I. Chemicals Division, 651 I.C.I. Chief's Plea for Collaboration, 512 I.C.I. Dance and Cabaret, 116 I.C.I. Dyestuffs Division, 107 I.C.I. has a Six-year Plan, 260 I.C.I. has a Six-year Pian, 260 I.C.I. Subsidiary, Anniversary Dinner of, 512 I.C.I. Textile Plant, 542 I.G. Farben's Post-War Activities, 361 Ilmenite, Utilisation of, 756 Income Tax Assessment Procedure, 216 Indirect Methods of Heating, 387 Industrial Dermatitis, 420 Industrial Estates, 108 Industrial Estates, 108
Industrial Measurement, Progress in, 493
"Industrial Wales" Exhibition, 18, 317
Infra-Red Heating by Gas, 58
Institute of Metals, 186
Institution of Chemical Engineers, 58, 434
Instruments "Less Reliable," British, 545
Instruments "Less Reliable, "British, 545
Instruments "For English Scientist Instruments "Less Rehable," British, 545 International Awards for English Scientists, 677 International Chemists in Council, 118 International Labour Office Industrial Committees, 236 Iron and Steel Figures Rise, 80 Iron Compounds and Phosphatic Fertilisers, 648, 672, 698 Iron in Industrial Waters, 161, 195 Iron Oxide Pigments, Synthetic, 10 Iron Powder Cores, 694 Iron Sulphate Recovery, 601 Ironfoundries, Conditions in, 158 Isotope Detection by Tracer Micrography, 292 Isotope Separation by Counter-Current Methods, 263 Isotopes for Research, 786 Isotopes, The Commercial Reparation of, 231 Isotopes, Radioactive, 261, 362

Jute Research Centre, 815

Knockendon Reservoir, 526 Kodak Research, 12 Kodak Works Tour, 116

Laboratory for R.A.E., New Chemical, 617 Law of Negligence, Reforming the, 721 Lead for Research Purposes, Electrolytic, 325 Lead Shortage and High Prices, 239 Leather Chemists' Conference, 472

LETTERS TO EDITOR

Mineral Wealth, 704 Production for Export, 513 River Pollution, 438 Survey of Scientific Man-power, 704

Lever Brothers' Pension Scheme, 350 Linseed Oil Prospects, 669 Linseed Oil Substitute, 405 Linseed Substitute Neglected, 472 Lithium, The Importance of, 512 Lloyd's Class I Certificate, 239 Luminescent Pigments, 595

Machinery for Industry, Less British, 506 Magnesium Venture Suspended, 705 Magnet, 1500 ton, 738 Manufacturers Fined, Chemical, 591 Manufacturers Fined, Chemical, 591 Measurement, Progress in Industrial, 493 Mercury Cell, High Capacity, 230 Metal-drying Liquid, New, 477 Metal Mines and Postage Stamps, 52 Metal-plating Process, New, 18 Metal Prices, Records of Chemical and, 185 Metal Purchasing Commissions Attacked, 150
Metal Statistics, Chemical and, 255
Metal-to-Metal Adhesives, 331
Metaliac Chemicals, New Source of, 797
Metallurgical Research and Training, 18
Metallurgists, Training for, 603
Metalis and Ceramics, New Resistant, 402
Metals Statistics, 201
Metals Statistics, 201
Metals Statistics, Light, 239, 735, 815
Metals Stocks and Sales, 86
Metals, Tensile Strength of, 17 Metals, Tensile Strength of, 17 Methane Gas, Exploiting, 546 Methyl Bromide, Fumigation with, 169 Metropolitan-Vickers Exhibits, 128 Mines, Safety in, 813 Model Calorimeter Room, 57 Moisture Measurement, 781 Mond Nickel Fellowship, 16 Monsanto's New Laboratories, 692

National Foundry College, 674
Nationalisation, Demand for, 730
Negligence, Reforming the Law of, 721
Nickel Deposits, The Peeling of, 330
Nitrate Ban Attacked, 369
Nitrate Bansater, Another, 146
Nitrate Hazards Under Review, 197 Nitrate Risks, Home Office and, 236 Nitrate Ship in Flames, 223 Nitrocellulose, Gelling of, 625 Nitrogen as Stockfeed, 754

OBITUARY-

Baker, Major J. S., 338; Benn, Miss Emna Irene, 706; Briggs, Lt.-Col. Ernest, 546; Brooks, James William, 276; Bruce, James, 276; Buchanan, Walter John, 633 Calvert, Dr. Harry Thornton, 460; Coats Cross, Sir William, 801; Courtauld, Samuel, 741, 770; Cowper,

Mr. Gavin, 546.

Mr. Gavin, 546.
Forteviot, Lord, 633
Griffin, Mr. F. J., 580
Hartland-Swan, Louis Herbert, 172; Henderson,
Andrew, 372; Hodges, Francis William, 306
Jollie, Andrew, 338; Jones, Dr. David, 338
Kayser, C. W., 741; Kenward, Sir Harold, 338;
Kirkwood, John Anderson, 425
Lane, Josiah, 801; Lawson, D. R., 770; Lefebure,
Major Victor, 276
Masson, Gulland, Prof. John. 606; M'Connachie.

Major Victor, 276
Masson Gulland, Prof. John, 606; M'Connachie,
William, 656; Miall, Dr. Stephens, 546; Mitchell
Sir William Foot, 241
Neurath, Prof. Dr. Rudolf, 633
Petrie, Arnold, 706; Planck, Prof. Max, 515; Prynn,
John Rundle, 770
Rayleigh, Lord, 801
Sim, Mr. James, 606; Stewart, Prof. A. W., 97, 172
Talbot, Benjamin, 829
Watts, Prof. W. W., 201; Whitmore, Dr. F. C., 62;
Wix, F. R., 801; Woolcock, W. J. U., 683

Oil and Chemicals, Scottish, 526 Oil and Colour Chemists Association, 526, 426 Oil and Colour Chemists Association, 526, Oil Refining, Sulphur's Role in, 627 Oil, 7,000 tons of English, 693 Oil Shortage, World, 347 Oil-resisting Rubber, 429 Olympia Exhibition, 147, 197, 250 Olympia Exhibitors, 90 Ovens for Chemical Industry, Radio, 169

OVERSEAS NEWS ITEMS-

Cellulose Plants for Argentina, 782 Import Rates, 270 Linseed, 719 Steel Co., Argentine, 132 Vegetable Oils from Argentina, 541

Overseas -continued

Australia

Colliery Prospects, Australian, 705 Dunlop Australian Plans, 752 I.C.I. Expansion in Australia, 424 German Scientists for Australia, 132 Lead and Zinc, Australian, 670 Petroleum Search in Australia, 301 Tin Plate Production in Australia, 254 Uranium, Australian, 783

Iron, the key to Austria's Prosperity, 327 Oil Cracking Process, 238 Production, Austria's 1946, 171 Scientific Instruments, Austrian, 818

Belgium

Nitrate Alam in Belgium, 223

Foreign Capital for Brazil, 97 Caustic Soda in Brazil, 671 Import Licences, Brazil, 260 Notes from Brazil, 324 Soda Ash, Brazil Needs, 478

Chemical Exports, Rising, 444
Chemical Industry, Canadian, 546; Chemical Notes,
Canadian, 56, 129, 227; Chemical Plant, 404;
Chemists Object, Canadian, 512
Flax Seed Plasties, 68
Imports, Canada's, 784
Paints, Canadian, 317
Rubbers in U.S. and Canada 546 Pannts, Canadian, 317 Rubbers in U.S. and Canada, 546 Salt Plant, Canadian, 406; Salt Rise, Canadian, 393; Styron Plant, New, 68 Varnish Plants, New, 474

Acid Plant for Ceylon, 66

Coal-Tar Products, 22; Copper Trade, 616 Fertiliser Production, 61 22; Copper and Fertilisers, 418 Nitrate of Soda, 4

Soda Factory, 199

Colombia

Czechoslovakia Chemical Agents, 724 Drug, New, 536 Mining Industry, 15 Potash Works, 144

Trade Mission, Danish, 438

Petsamo Compensation Agreement, 526

Cyanamide and Melamine: The French Process, 507 Fertiliser Manufacture, Compound, 785 Iron-Ore Mining, 160 Iron-Ore Mining, 160
Magnesia Refractory Materials, 204
Nitrate Shipments, France Bans, 197
Oil-crushing in France, 668; Oil-milling Machinery, 706;
Oils and Fats, French, 473, 567
Reparations: French Zone, More, 753
Sulphur Economy, French, 762

Germany

Business Visits to Germany, 108 Carbon Blacks, 86; Chemical Exports, Few German, 49; Chemical Industry, U.S. Fear Rehabilitation of, 406; Chemical Plant, 48; Chemical Revival, German, 618 Dismantlings in Germany, French, 669 Fatty Acids, German, 542; Fertiliser Processes, 168; Food Industry, 470 Industry, German, 49; Iron Ore, 22

Metallurgy, German, 723; Micro-Analysis in Wartime Germany, 507 Non-monetary Gold, 784

Oil Fields, 266

Patent Law, 515; Precision Tool Industry, Berlin's, 171; Purchasing Agency in Germany, 306; Pyrites Residues for Germany, 160 Reparations, German, 667

Scientists and Technicians, 296; Soap Production, 37

Ammonium Nitrate, 736 Ammonium Nitrate, 736 Chemical Process for U.S., 738 Morphia, Dutch, 767 Nitrogen Plant, 56 Plastics, Dutch Source of, 642; Plastics Training Agreement, International, 296 Quinine for U.S., 508 Trading Group, Dutch, 642

Hungary

Minerals Monopoly, 654

Alcohol, India's Surplus, 650; Atomic Energy in India, 822; Atomic Research in India, 766; Chemical Blue-print, India's, 644; Chemical Imports, 270; Chemical Needs, 464; Chemical Plan for India, 766; Chemical Plans, India's, 293 Fertiliser Plants for India, 813; Fertiliser Production, Lansil's Indian Project, 202; Licences, Revalidation of Indian, 370 Shellac, Indian, 171 Tariff Changes, 405

Iran

Distillers Project, Anglo-Iranian, 147

Ireland

Chemical Association, Officers of Irish, 515; Chemists's Colloquium in Dublin, 48

Italy

Asbestos in Italy, 336 Aspestos in Taily, 500 Butadiene, Italian Work on, 816 Calcium Carbide Production in Italy, 199; Cements Resistant to Sea Water, 318; Chemical Jottings, 462; Chemical Notes, 724; Chemical Prospects, 786; Cupro Chemicals, Italy Short of, 77 Gasification, Underground, 477 Pine Gums, Italy, 250 Rubber Industry, 222

B.I.O.S. Reports on Japan, 72 Chemical Industry, Japan's, 171; Chemical Needs, Japan's, 347; Chemical Output in Japan, 680; Chemical Production in Japan, 334; Chemical Recovery, Japanese, 630 Penicillin Production in Japan, 549 Scientific and Technical Research in Japan, 324

Malaya

Lever Project in Malaya, 425 Rubber Revival, 629 Tin and Rubber, 15

Oil Production in Morocco, 192

Norway

Aluminium Production, 230

Fertilisers from Palestine, 576 Petroleum Project, Haifa, 78 Radio/Active Materials, 498

Index vi

Overseas-cotinued

Bicarbonate, Polish, 539 Buna Rubber Plant, Polish, 171 Chemical Exports, Polish, 474: Chemical Industries, 183; Chemical Industry, Reviving Polish, 825; Chemical Production, Polish, 255, 502

Portugal

Market, Portuguese, 782

Steel Plan for Rhodesia, 478

Patent Law in the U.S.S.R., 235

Oil Output, Dwindling, 204 Oil, Rumanian, 817

South Africa

Business Developments, 814 Business Developments, 814 Chemical Industries, 38; Chemicals in South Africa 239, 297, 509; Cement Industry, 36; Coal and Steel, 736; Chemical Notes, South African, 198 Industries, Widening Scope of South African, 628 Oils and Vitamins, 750 Superphosphates, South African, 738

Fertiliser Production, 61 Paint Industry, 295

Import Regulations, New, 272 Measurement Congress, Stockholm, 59 Stora Koppabergs Bergslags, World's Oldest Company, 183

Aluminium in Tasmania, 570

Turkey

Chemical Expansion, 729

United States

Acetic Anhydride, Chemical Safety Data Sheet, 499; Allyl Chloride, 657; Allyl Sucrose, 594; Aluminium, 569, 160, 752; Aluminium Figures, Rising, 85; 509, 160, 752; Auminum Figures, Kising, 85; Aluminium Foil Plant, 814; Aluminium Production, 670; Amberlite W-1, 594; Ammonium Nitrate Fertiliser and Trifluoro-chloroethylene, 657; Fertiliser and Triftuoro-chloroethylene, 657,
Ammonium Nitrate Safeguard, 403; Ammonium Nitrate Safety Measures, 289; Ammonium Nitrate,
Transporting of, 569; Aulline, Safety Data Sheet
SD-17 on, 765; Aqua Ammonia, 275; Atom Bomb "Myth," 814; Atomic Energy Commission, 752
Benzoic Acid Cell, The, 540; British Export Trade
Research Organisation, 500; Building Materials,
Control of, 798; Burton, Dr. (Awarded American
Petroleum Institute Gold Medal), 675
Carbon Black Production and Sales, 89; Carbon Blacks,
132; Cartel Conspiracy Alleged, New, 477; Celanese
Acetate, 624; Cellulose Ester Plastic, New, 149;
Cellulose Sheet Industry, Monopoly of, 783; Chemical Companies Challenged, 788; Chemical Company,
New, 500; Chemical Congress, 435; Chemical Data
Safety Sheet, 148; Chemical Education Commitee,

ical Companies Challenged, 783; Chemical Company, New, 500; Chemical Congress, 435; Chemical Company, New, 500; Chemical Congress, 435; Chemical Committee, 803; Chemical Experiment, 788; Chemical Exports, 266; Chemical Exposition in New York, 317; Chemical Industry Unable to supply Industrial Demands, 55; Chemical Lyostopheros, 55; Chemical Price Reductions, 55, 696; Chemical Prices, 626; Chemical Prices, 167; Chemical Production Increase, 675; Chemical Production Increase, 675; Chemical Production Increase, 675; Chemical Production Ingrase, 67

ties, Tables of Selected Values of, 193; Chemicals, Decrease in Manufacturers' Sales of, 228; Chemicals from Petroleum, 736; Chemists' Salaries, 798; Chemists and World Relations, U.S., 201; Chicle, Plants for Synthetic, 89; Chloride Resin, 624; Coal for Chemical Industry, 148; Cracking Process, 675; Chemical Industry, 148; Charles Industry, 148; Chemical Industry, 148; Chemic

Plants for Synthetic, 89; Chloride Resin, 624; Coal for Chemical Industry, 148; Cracking Process, 675; Curium, 96, 534
Designated Geon Polyblend, 149; Dially! Phenyl Phosphonate, 89; Digges, Mr. Thomas G., 737; Disease, Occupational, 89; Dollar Shortage, 534; Dow Chemical Company Report, 289; Drug, U.S. has New Anti-malarial, 718; Du Pont de Nemours & Co., Inc., 1.E., 594; Dyes, Export of, 798
Electroless Plating on Metals by Chemical Reduction, 156; Electronic Detector, A New, 89; Equipment, New Chemical, 389; Exposition, U.S. Chemical, 697; Exposition of Chemical Industries, 21st, 788; Export Trade, A possible decrease in, 54; Fertiliser Exports, 201; Fertiliser Production, 534, 61, Financial Statements, 696; Fischer-Tropsch Process, Chemicals Produced by, 333;—Sourine Production, Patented Process for, 54; Fourth Radioactive Series, 401; Fuel-Producing Plant, New, 569; Fuels, Synthetic, 721
Gas Analysers, I.G. Farben-industries' Automatic Infra-red, 148; Gas and Coke Decline, 10; Gasification, Underground, 226; Gasoline, Knockless, 765; Gasoline, Production of Synthetic, 569; Glycol, Harrow, Prof. Benjamin, 675; Hydroabietyl, 765; Hydrogenation by Dissociated Ammonia, 654; "Hypergolic," 798
Imports, Need for Increased, 54; Inorganic Chemicals, Production of Syntheric Chemicals, Production of Synthetic, 669; Glycol, Chemicals Production of Synthetic,

Imports, Need for Increased, 54; Inorganic Chemicals, Production of, 333, 499; Inorganic Chemicals, 787, 750; Insecticide, A New, 403; Instrumentation in U.S. Refineries, 392; Iron and Steel Shortage, 499; Iron Developments, 134; Isolationism, 499;

499; Iron Developments, 134; Isolationism, 499; Isotopes, Radio-active, 382
Knolls Atomic Research Laboratory, 273
Lead Output Slumps, 610; Linseed Crop, Better, 490;
Linseed Oil, 333; Lawrence, Dr. Ernest O., 89
Magnesium Oxide, New Plant for, 569; Metallic Yarn, 229; Mineral Reserves, 623; Monsanto Engineering
Contracts, 55; Moroccan Enterprises, U.S., 772;
Motor Fuels, Synthetic, 737; Motors, Inert Gasfilled Synchronous, 229 filled Synchronous, 229

Motor Fuels, Synthetic, 737; Motors, Inert Gasfiled Synchronus, 229
National Science Foundation, 148; Nationalisation
of British Industry 657; Nickel, 149; Nicotine,
737; Nitrate Ban Attacked, 369; Nitrate Cargoes,
New York Bars, 223; "Nucleonies", 194
Organic Chemical, A New, 273, 500; Oxygen for U.S.
Steel, More, 814; Oxygen Production, 127
Paints on Test, Industrial, 72; Patent Available for
licensing, 657; Petroleum and Nitrogen Survey,
626; Petroleum Chemicals, 228; Phosphate,
Angaur, 12; Plastic Part, A 650 lb., 194; Pneumonitis, Chemical, 89; Polythene Plastic Price Decrease,
765; Potash Industry in 1946, 294; Powder
Metallurgy Patents, 273
Radioactive Series, Fourth, 401; Refineries, Instrumentation in, 392; Research Centre, An UltraModern, 535; Research, U.S. Curtails, 63; Resin,
A New Synthetic, 798; Resins, Decrease in Price of
Synthetic, 199; Resins, Synthetic, 696; Rubber
Consumption, 814; Rubber, Allocations of Synthetic, 696; Rubber and U.S. Dollar Exchange,
200; Rubbers in U.S. and Canada, 546
Safety Data Sheet SD-17 on Aniline, 765; Safety
Measures—Ammonium Nitrate, 289; Safety Data
Sheet—Trichlorethylene, 289; Saran Fibre, 624;
Science Programme, Ten-year, 406; Scientific
Mission, 624; Scrap, Conserving, 236; Silica Powder,
978; Steel Buyers unable to Place Contracts in
U.S., British, 194; Steel Exports, U.S. to Control,
346; Steel, Fabricated Structural, 403; Steel
Shipments, 289; Sulphuri Acid Plant, New, 66;
Sulphuric Acid Production in South America, 334;
Superphosphate Fertiliser, Production of, 594; Sulphuric Acid Production in South America, 334;

Sulpnuric Acid Production in South America, 334; Superphosphate Fretiliser, Production of, 594; Superphosphate Production, 499 Technical Skill Wasted, 228; Termite Control Methods, 569; Tin Plate, 229; Tin to U.S., Bolivia May Increase Price of, 273; Titanium Compounds, E.I. Du Pont de Nemours & Co. Control of, 54; Toxa-phene, Supply of, 499; Trade, Anglo-U.S., 403; Trichlorethylene—Safety Data Sheet, 289

Overseas-continued

Vinyl Cyclohexane, 273; Vinyl Resins Gaining Ground In the U.S., 58

Waste Recovery with Little Processing, 756; Waste Treatment: U.S. Forecast, 719; Water, New Method to Determine the Volume of, 228; Wax Shortage, American, 349; Welding Rod, New, 814

Overseas Trade, 108 Oxygen Enriched Blast, 731 Oxygen for Carbon Reduction in Open Hearths, 16 Oxygen, Large Scale Production of, 81 Oxygen, Steel Production, 469

Paint Industry's Raw Materials, 444 Paint Problem, Town's, 764 Paint Research Appointments, 782 Paint Statistics for May, 9 Paint Research Association, 350 Paint Research Laboratory, 428 Paints on Test, Industrial, 72 Papain, Adulteration of Ceylon, 604 Paper Pulp Shortage, 772

PARLIAMENTARY TOPICS-

Advertising Tax Dropped, 767; Aluminium Scrap, 24
Bismuth, Shortage of, 59; Bulk Buying Attacked, 170
Carbon Black, 24; Carbon Black, British, 204; Chemicals, Dead Sea, 59; Coal Board Deficit, 170; Coal/
Oil Conversion Figures, 767; Coal, Polish, 767;
Coal Rations, Deficient, 134; Coal Target-Shortage
Estimated, 767; Copper Sulphate Sales, 676;
Cottonseed, Uganda, 707; Creosote-pitch Subsidy
Withdrawn, 676

Cottonseed, Uganda, 707; Creosote-pich Subsay Withdrawn, 676
1851 Exhibition Centenary, 767
Fertilisers for Africa, 826; Fertilisers Subsidies, 782; Fertilisers, Free Market for, 24; Fluorine Committee Report, 170; Furnace Blacks, 59
Government Share in Anglo-Iranian, 204; Groundnut

Stocks, Nigeria, 707 arwell: "Developments Continuing," 707

Harwei: Developments Continuing, 707 Imports, Private, 59; Industrial Injuries Council, 767; Industrial Subsidies, 707; Iron Ore Subsidies, 676 Lime Production, 826; Linseed Imports, 826; Linseed Oil Controller, 134; Linseed Oil Production, 204; Linseed Substitute, Another, 204

Innseed Substudie, Anomeir, 2004 Magnesium Chloride in Dead Sea, 1,34; Manpower, 59; Match Industry Possibilities, 216; Metal Purchases, Government, 24; Metallurgical Coke for Steel Industry, 782; Minerals, Dead Sea, 24 Oil Earnings, British, 216; Oils and Fats, Export of,

707

707
Phosphates, African, 707; Portland Cement—Exports and Imports, 826; Potash Adequate, 782
Recruits for Industry, £70, 216; River Boards' Bill, 767; Rubber Agreement, 826
Salt, Imported, 676; Science Graduates, 59; Sheet Steelworks, New, 782; Soda Ash Shortage, 707; Staggered Hours Compulsory, 170; Scientific Books, Imports of, 676; Scientifics, Questionnaire to, 767; Seaweed Research, 676; Steel Supplies, 707; Strikes, Effect of, 134; Soda Ash, Morc, 59
In, \$23 Million for, 59; Tin, Malayan, 59; Trade Allocations, 24; Tung Oil Experiment, 134; Typewriters, 826

writers, 826
Vegetable Oil, New, 24
Whales, 16,000, 676; Whaling Restrictions to Continue, 826

Particles, Separating Fine, 671 Patent Process, New, 503 Patent, Dollars for, 632 Patent Rights, 784 Peat Prospects, Scottish, 422 Penicillin, 812 Penicillin Factory, Speke, 351 Penicillin Plant, Threat to, 128 Penicillin, Waning Power of, 719 Perfume Works, Fire at, 542

Adam, J. L., 26; Adam, Gen. Sir Ronald, 440; Adrian, Prof. E. D., 741; Amos, A. J., 656; Appleton, Sir Edward, 137, 829; Ashfield, Lord, 306; Ashley Mason, H., 770; Austin, G. J., 201

Index vii

Bailey, J. C., 63; Balley, John E., 551; Bain, Sir

Frederick, 338, 481; Balfe, M. P., 241; Bancroft, F. E., 683; Bangham, Dr. D. H., 706; Banks, Dr. W. H., 26; Barber, John Lionel, 551; Barr, James, 172; Barr, Thomas, 172; Barrett, Dr. J. W., 440
Barry, C. V., 515; Bardett, L. H., 63; Bassett, Kenneth T., 801; Batten, L. R., 633; Beale, Sir Samuel R., 515; Beavlett, L. H., 63; Bassett, Kenneth T., 801; Batten, L. R., 633; Beale, Sir Samuel R., 515; Beavlett, L. H., 63; Bester, Sir Samuel R., 515; Benedict, Dr. M., 706; Benger, Dr. E. B., 276; Bennetts, H. C. Wilson, 26; Beresford, Herbert, 26; Bergen, W. Von, 636; Bernal, Prof. J. D., 741; Berrill, F. O., 633; Beswick, W., 551; Betterfige, T. C., 137; Bevan, E. A., 656; Billingham, A. V., 306; Billington, J., 706; Bishop, A. S., 770; Boake, E. E., 241; Board, T. F. A., 580; Bodlender, Samuel, 633; Bolton, K. J., 276; Bottomley, J. F., 372; Boyd, J., 741; Boyes, Dr., 276; Boyle, J. W., 706; Braybrook, F. H., 306; Brearley, George, 516; Brendan, T. W., 515; Briggs, P. Stanley, 633; Bronsted, Prof. J. N., 137; Brown, James, 26, 63; Brown, Prof. W., 741; Brue, James, 706; Brunning, E. J., 26; Buckley, Dr. H., 372; Buist, D. Maxwell, 481; Burch, K. S., 372; Burte, K., 683; Burton, Dr. Harold, 201; Carlisle, D. J., 440; Carrington, Noel, 338; Cartwright, W. F., 481, 683; Carver, Dr. George Washington, 656; Chadwick, Percy, 63; Chambers, S. P., 97; Chao-lun-Tseng, Prof., 372; Chapman, Prof. S., 741; Chilman, Eric, 556; Cleminson, A. H., 26; Coates, Sir William, 63; Cocking, T. T., 97; Colgate, Dr. R. T., 276, Conway, Prof. E. J., 515; Cookson, C., 137; Cooper L. H., 551; Copp, D. J. B., 26; Cowan, C. G. A., 683; Cowburn, A. W., 776; Crawford, A. J., 172; Credland, Ralph, 276; Cremer, H. W., 656; Crichton, Robert, 580; Cronshaw, Dr. C. J. T., 481; Cunningham, Sir Graham, 63
Bavey, Dr. D. Garnet, 26; Davies, Capt. H. Leighton, 481; Deakin, J. B., 683; Deve, Prof. P. T., 551; Douds, Prof. F. G., 410; Drummond, Sir Jaftek, 53; Dounan, Prof. F. G., 410; Drummon

G. A., 201; Duncan, Stanley J., 770

Eadle, W. R., 410, 551; Eccleston, William, 580, Edgington, Dr. B., 97; Eerdmans, J., 201; Egerton Sir Alfred, 741; Eley, G. C. R., 580; Elgodd, L. A., 338, 580; Elstub, St. John, 515; Engledow, Sir Frank, 741; Evans, R. L., 201; Eyr, Norman 338, Frank, 74

Frank, 741; Evans, R. L., 201; Eyre, Norman E. L., 306, 515; Fairbrother, T. H., 656; Fairfield, C. L. Gale, 829; Falder, Mr., 276; Fearnett, John, 276; Ferguson, H. G., 683; Ferguson, J. M., 241; Fishburn, A. G., 276; Fisher, G. R., 440; Flaherty, D. E., 372; Fleming, Sir Alexander, 137; Flight, T. N., 551; Fluck, Dr. Hans, 706; Foot, R. W., 97; Foot, Robert, 515; Fox, W., 551; French, Norman, 172, 633; Frisken, J., 580; Frolich, Dr. Perk, 440; Fry. C. L., 683

Foot, Robert, 515; Fox, W., 551; French, Norman, 172, 633; Frisken, J., 580; Frolich, Dr. Perk, 440; Fry, C. L., 683
Gamage, Leslie, 137; Garner, Prof. W. E., 741; Gartside, M. J., 551; Gass, N. A., 580; Geddes, A. R. Mackay, 633; Gee, Dr. Geoffrey, 551; Gent, L. J., 372; George, Reginald, 241; Gibson, H. S., 172; Gibson, James, 241; Gibberton, C. F., 551; Gillies, W., 241; Godber, Joseph, 410; Gordon, Major Kenneth, 372; Gottfeldt, Dr. H., 656; Gredon, Major K. G. Green, G. S., 563; Green, A., 97; Green A. T., 515; Green, H. W., 241; Green, Sir John, 551; Green, F. A., 656; Greenhous, Clifford, 741; Greenwood, C. T., 551; Griffish, F. J., 656; Griffiths, Sir William, 551; Grimshaw, J. H., 683; Guingand, Sir F. W., 26
Hague, C. K. F., 388; Hales, J. S., 706; Hall, W. N., 97; Hallet, G. G. H., 241; Halliday, H., 306; Hamcook, F. W., 633; Hann, Edmund L., 516; Hanson, G. F., 683; Hardy, Prof. A. C., 741; Hardy, Prof. G. H., 683; Hartley, J. B., 172; Hathaway, H. T., 706; Hawes, W. B., 97; Haworth, Dr. Leland, J., 580; Haworth, Sir Norman, 137, 551, 741, 801; Hayman, G. G. G., 580; Hedges, Dr. E. S., 410; Hellbron, Sir Ian, 770; Heller, Kurt, 40; Hemmant, D. G., 481; Henderson, George, 741; Hendry, Robert, 440; Hewitt, Ernest, 440;

Personal-continued

Hewitt, J., 137; Hibberd, C. E., 741; Hickson, Geoffrey, 481; Hinshelwood, Prof. C. N., 137, 683; Hoblyn, E. H. T., 656; Hoff, G. P., 440; Holden, Allan, J., 683; Hollies, Mr., 276; Holgate, Hugh F., 741; Houwert, F. J., 606; Hughes, P. T., 683; Hunter, Dr. T. G. 97; Hurcomb, Sir Cyril W., 410; Hutchings, Sir Robert Howell, 410; Hutchings, Sir Robert Fermal 410. Hutchings, Herbert Expert 110.

Anian, J., 0885; Hollies, Mr., 270; Holgate, Hugh F., 741; Houwert, F. J., 606; Hughes, P. T., 683; Hunter, Dr. T. G. 97; Hurcomb, Sir Cyril W., 410; Hutchings, Sir Robert Newell, 410; Hutchinson, Herbert, 440 Jackson, J. B., 606; Jameson, James A., 580; Johnson, H. H., 26; Johnson, Dr. Thomas Hope, 580; Johnson, Walter, 26; Joliot, Prof. J. F., 688; Jollie, A. 706; Jolly, J. H., 515; Jolly, T., 683; Jones, Dr. E. R. H., 172; Jones, O., 656
Kamm, Dr. E. D., 580; Kamm, Dr. R. L., 606; Karrar, Prof. P., 137; Kay, Prof. H. D., 741; Kaye, M. A. 6, 551; Keenan, George, 276; Keepe, Miss W. G., 306; Kellaway, Dr. C. H., 741; Kemp, A. H., 63; Kemp, W. D., 276; Kennedy, Sir John Macfarlane, 410; Kenward, Sir Harod, 656; Kiby, J. N., 201; Killery, V. St. J., 137, 829; King, G. T., 706; King, Dr. R. E., 770; Kleemann, Max, 741; Koelman, A. D., 306; Kuin, Prof. P., 741; Lacey, G. W., 26; Lampitt, Dr. L. H., 241, 372; Langham, E. A., 741; Lawrence, Dr. A. S. C., 633; Lawson-Jones, H., 706; Lazell, H. G., 201; Leask, James Bruec, 338; Leeg, Lennox Bertran, 338; Leggett, Sir Frederick, 63; Leverhulme, Lord, 440, 656, 829; Levy, S. J., 656; Lewis, John, 580; Lewis, T. O., 481; Liddell, P. D. C., 63; Llewellyn, Dr. F. J., 97; Long, Dr. R., 97; Lord, J. H., 633; Lovatt Evans, Prof. C. A., 741; S01
MacDonald, Frederick, 741; MacKain, J. Corston, 656; MacNeill, Miss M., 515; Major, Dr. Randolph T., 440; Mallett, H. C., 97; Marsden, H., 636; Marks, R. H., 551; Marsh, G. R., 201; Marshall, C. Milton; 201; Matthews, Dr. W. S., 306; Mautner, Dr. Paul, 372; McCallister, E., 801; McCalloch, H. G., 276, McCutcheon, M. W., 97; McDavid, F. H. S., 515; McDonald, A. F., 388; McDowell, J. L. F., 306; McGawan, Lord, 26; McLaren, Keith, 410; McLacyllin, W. J., 63; McMaster, Donald, 241; McHond, N., 174;

Peacock, Dr. D. H., 137; Pearce, G. C., 551; Pearman, R. W., 741; Petersen, C., 172; Peto, Sir Geoffrey, 241; Phillips, Dr. Henry, 26; Plummer, R. A., 515; Pode, E. J., 683; Pode, R. J., 481; Proyard, Dr. Georges, 276
Ramsden, Dr. Walter, 683; Rand, William M. 481.

Georges, 276
Ramsden, Dr. Walter, 683; Rand, William M., 481;
Read, Prof. H. H., 741; Redman, J. K., 741;
Reed, R. E., 241; Reid, Mr., 276; Ridler, R. H.,
276; Riley, Douglas W., 633; Riley, Harry L., 551;
Risk, James, 410; Ritchie, E. G., 706; Ritson,
Prof. J. A. S., 633; Roberts, Dr. B. R., 656;
Roberts, Miss Muriel, 606; Roberts, S. K., 683;
Robertson, J. H., 656; Robertson, R. H. S., 63;
Robinson, J. E., 683; Robinson, Sir Robert, 172,
741; Robinson, W. S., 770; Ronea, J. F., 656;
Ross, H. J., 338; Roxbee Cox, Dr. H., 276; Rubin,
L. C., 706; Rule, R. Y., 606; Rushton, G. I., 656;
Russel, Leo, 137; Ryan, John, 137; Rydon, Dr.
H. N., 372

Russel, Leo, 167; Ayan, John, John, Johnson, H. N., 372 Sadgopal, Dr., 276; Sage, Dr. C. E., 770; Salisbury, Sir Edward, 741, 801; Satchwell, L., 551; Schmerl-ing, Dr. Louis, 241; Scott, Dr. W. D., 440; Scott Watson, Prof. J. A., 770; Seaborg, Prof. Glenn T.,

656; Sherrill, Prof. Mary L., 241; Smith, Arnold L., 241; Smith, Arnold H., 580; Smith, Dr. F., 97, Smith, Irving, C., 580; Smith, Dr. J. A., 372; Smith, Prof. J. G., 137; Smith, W., 683; Snow, Dr. E. C., 241; Spiers, C. W., 241; Spiers, J. A. A., 741; Srinagabhushana, Mr., 741; Stagg, Rawson, 801; Stanley, R. C., 481; Steedman, George, 580; Steel, Gerald, 656; Stein, Eric, 580; Stephens, R. L., 656; Stevens, J. H., 551; Stockbridge, N. F., 388; Stubbs, R., 683; Studholme, P. G., 63; Swedler, C. H., 372;

656; Stevens, J. H., 551; Stockbridge, N. F., 338; Stubbs, R., 683; Studholme, P. G., 63; Swedler, C. H., 372
Taylor, H. G., 440; Temple, Montague, 276; Terry, R. C., 656; Thompson, Edward, 276; Thompson, H., 440; Thompson, S., 241; Thomson, William Maitland, 551; Tilney, R. A. G., 706; Tizard, Sir Henry, 338, 410; Todd, Dr. F. A., 580; Townend, Dr. D. T. A., 706; Tress, Dr. H. J., 633; Trueman, Dr. A. E., 741; Turnbull, D. M., 172; Turner, Captain C. F., 440; Tweddell, G. H., 633; Trueman, Dr. D. T. A., 706; Tress, Dr. H. J., 633; Trueman, Dr. D. T. M., 1241; Vigor, Lt.-Col. E., 63
Waddington, E. S., 26; Waite, C., 551; Waller, T. E., 338; Wallis, B. N., 741; Walters, Dr. H. V., 580; Warboys, Dr. W. J., 26; Ward, Ashley S., 683; Watson, V., 683; Waugh, Michael, 481; Webb, R. C., 770; Wells, Sir Frederick, 137, 481; Wells, P. A., 481; Westall, B. C., 201; Wheeler, C. R., 683; Wheeler, Prof. T. S., 515; Wheeler, W. D., 440; Whitehead, Dr. J. H. C., 741; Williams, G. F., 770; Williamson, Dr. W. T. H., 515; Wilson, H. A., 683; Wilson, John, 656; Wood, George, 440, 683; Wood, M., 97; Wood, William, 741; Woodroffe, D., 633; Wright, Leslie F., 410; Wright, Dr. Norman C., 551; Wylie, D. C., 241; Wynne-Jones, Prof. W. F. K., 97

Petroleum, Key Material—, 766
Petroleum Prospects, World, 666
Petroleum Schemes, Big British, 693
Petroleum, Synthetic Production of, 221, 269
Petrol-rationing Proposal, New, 566
Phenol and Chlorobenzene, Synthetic, 463 Phenol and Chlorobenzene, Synthetic, 463
Phenol Disposal, 595
Photograph Exhibition, 386
Photometer, Chemical Comparisons by X-Ray, 291
Pickle Conversion to New Material, Waste, 465
Plant for Chemical Industry, More, 425
Plant Protection, Ltd., Anniversary Dinner, 512
Plastic Protective Coatings, 722
Plastics from the Petroleum Industry, 271
Plastics, International Progress in, 287
Plastics Fow Source of 730 Plastics, New Source of, 730
Plastics, Powell Duffryn, 525
Plastics Production, Scientifically Controlled, 510 Plastics Training Agreement, International, 296 Plated from Cellulose Fibres, 229 Plating, Ultra-rapid, 199 Plutonium Atomic Pile, 384 Pollution, River, 106, 353 Porcelain, Chemical, 355 Postage Stamps, Metal Mines and, 52 Potassium Permanganate and Manganese Chloride, 761 Powell Duffryn Ltd., 576
Powder Alloys, Resistant, 736
Powder Metallurgy, 93, 153
Powder Metallurgy, 1mprovements in, 192
Powell Duffryn Chairman, 515 Fowell Dunryn Charman, 913 Powell Dunryn Plasties, 525 Power Pump, New-type Hydraulic, 92 Power Saving Plan Starts, 491 Precipitation Hardening, 13, 151 Pressure, Spray Nozzles, Principles of, 563, 569, 621 Prime Minister at Centenary Dinner, 110 Princess Elizabeth, R.S.A.'s New President, 306 Production Committees, Joint, 455 Profit Margins, To Study, 476 Propulsive Power, Hydrogen Peroxide for, 395 Pump, New Metering, 301 Pump, New-type Hydraulic Power, 92

Qualifications for Chemical Workers, 525 Quick-freezing Industry, Scottish, 371 Quinine Production Recovery, 678

ble

7.

w, A., on, L., 38; er,

y,

m Sir

m, er,

88, Ε.

30, C., A., 33, 10,

0:

od, 33; C.,

Radio Ovens for Chemical Industry, 169 Radioactive Materials, 498 Radioactive Series, Fourth, 401 Radioactive Series, Fourth, 401
Raliways, Chemistry and, 107
Raliway Company's Research Record, 798
Recovery Plant Stops, New, 128
Refinery Extension, \$20 Million, 669
Reparations Announced, Scale of, 559
Research and Development Company's Plan, Amalgamated, 649
Research for Industry, 704
Research For Industry, 704
Research Station, Kilbride, 761
Research Station, Kilbride, 761
Research, The Importance of, 434
River Pollution, 106, 353
River Pollution Charge, 719
River Pollution Charge, 719
River Pollution, Scottish, 438
Rocket Explosion, 678 River Pollution, Scottish, 438
Rocket Explosion, 678
Rocket Station, British, 249
Royal Aircraft Establishment, New Chemical Laboratory
for, 617
Royal Institute of Chemistry, 593
Royal Institute of Chemistry Examinations, 286
Royal Institute of Chemistry Questionnaire, 350
Royal Institution, The, 267
Royal Society, Chemists at the, 109
Royal Society, Officers of the, 741
Royal Society, Officers of the, 741
Royal Society of Arts' New President, 306
Rubber Filling, 404
Rubber, 011-resisting, 429
Rubber Plans, Synthetic, 159

Safeguards, Progress in Factory, 581
Safety in Mines, 813
Safety Rules, Model, 647
Sait Project, Colombian, 406
Samples, Standardised, 542
Scientific and Industrial Research Appointments,
Department of, 551
Scientific Instruments, 256
Scientific Lease-Lend, 653
Scientists and Technicians from Germany, 296
Scientists Visiting. 784 Scientists and Technicians from Ger Scientists, Visiting, 784 Screening Method, New, 503 Seaweed and Vegetable Oils, 235 Seaweed Plan, Labour Limits, 826 Seaweed Research, Scottish, 444 Security, Quest for Economic, 592 Self-help in Industry, 787 Service Chemicals for Disposal, 496 Shackleton Relic, 241 Service Chemicals for Disposal, 496
Shackleton Relic, 241
Shale Mining Prospects, 643
Shaffield University Appointments, 633
"Shell" Transport and Trading, 90
Shortages, Cost of, 674
Silicon Organic Compounds, 187, 219
Sintered Ore, Use of, 469
Soap, A New Fatless, 239
Soda Ash, Shipment, Storage and Handling of, 365
Society of Chemical Industry, 80, 145, 363
Sponge Iron in Steel Production, Use of, 467
Staggered Hours in Factories, 348
Stanlow Project Started, 826
Statistics, Digest of, 37, 496
St. Andrews Symposium, 78
Steam Boiler Plants, 386
Steel Company of Wales, 481
Steel Firm's Experiment, 491
Steel Froduction, Oxygen, 469
Steel Production, Oxygen, 469
Steel Production, Use of Sponge Iron in, 467
Steel Standards, British, 37
Steelmaking, Oxygen Speeds, 504
Steels for the Engineer, Stainless, 735
Streptomycin, 475
St. Rollox Anniversary, 400
St. Rollox Chemical Works, 509
Students, Exchange of, 642 Students, Exchange of, 642

Sulphite and Sulphate Pulp, 725 Sulphuric Acid from Sludge, 593 Sulphuric Acid Statistics, 215, 652 Sulphuric Acid Towers, Corrosion in, 787 Sulphur's Role in Oil Refining, 627 Superheating by Electricity, 363

Tank Bottom Sampler, 404
Tank Welding Automatic, 407
Tar Distillation, Modern Methods of, 670 Technical Publications, 60, 95, 200, 303, 479, 548, 679, 739, 772, 802, 831 Technicians from Germany, Scientists and, 296 Technologists, New Degrees for, 224 Telephone Facilities, Better, 434
Tetra-ethyl-lead, 505
Timber Waste, Food Yeast from, 497
Tin Allocations, World, 66
Tin Allocations Announced, World, 62 Tin an Anti-corrosive, 603 Tin Buying Prices Raised, 813 Tin Metal, Allocations of, 286 Tin Prices Increased, 784 Tin Producers Penalised, 373 Tin Stocks in May,126 Tin Supplies, Home, 760 Tinting Strengths, 802 Toxic Gases, Simplified, 799 Trade, Overseas, 108 Trade Secrets, Sale of, 570 Trading in August, Chemical, 455 Training and Status of Chemists, 456 Transport Crisis, Another, 760 Tungsten Shortage, Widespread, 734

Ultra-rapid Plating, 199 Uranium Ore, £1 Million for, 581

Vegetable Oils from Argentina, 541 Vegetable Oils, Seaweed and, 235 Vinyl Compounds, 121 Vinyl Ethers, 199 Viscosity Measurement, 579

W

Wages on Points, 753 Wages, Quarrymen's 476 Wagon Shortage, Effects of, 644 Wagon Shortage, Effects of, 644
War Stock, £14,000 Saved on, 126
Waste Pickle Conversion to New Material, 465
Water Purification, Large Scale, 694
Water Softening Preparations, 428
Welding and Flame Cutting, 732
Welding Rocess, Electric, 547
Welding Research Reports, 95
Welding Standards, 470
Whaling Agreement, 306
Wood Chemically Medified, 459 Wood, Chemically Modified, 459 Wood Pulp By-products, 11 World Representation at the Congress, 87

Yeast from Timber Waste, Food, 497

z

Zinc and Titanium, 603 Zinc Consumption, 260 Zinc, Sprayed, 815 Zirconium Oxide, 605

Printed in Great Britain by The Press at Coombelands Ltd., Addlestone, and published by Benn Brothers, Ltd., at Bouverie House, 154 Fleet Street, E.C.4.